

What Is Claimed Is:

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1. A system for measuring a property of a liquid, comprising:
a piezoelectric sensor device which is completely
immersed in the liquid to be measured, the sensor including:
electric contact points for an electric control and
which are resistant to the liquid;
electric lead conductors which are resistant to the
liquid and which are connectable to an electronic
control/analyzer unit arranged outside the liquid; and
a suitable conductive adhesive containing metal particles
and for coupling the electric lead conductors to the electric
contact points.

2. The system of claim 1, wherein viscosity is the property
of the liquid that is measured.

3. The system of claim 1, wherein the piezoelectric sensor
device is configured as a disk-shaped quartz crystal and is
excitable to shearing oscillations by the electric control.

4. The system of claim 1, wherein the liquid to be measured is
an oil.

5. The system of claim 1, wherein the electric contact points
are one of gold and chromium electrodes.

6. The system of claim 1, wherein the electric lead conductors
are one of gold-plated wires and chromium-plated wires.

7. The system of claim 1, wherein the electric lead conductors
are configured as bifurcated contact springs.

8. The system of claim 1, further comprising:
a protective container having a bottom and a cap, the
protective container enclosing the piezoelectric sensor device
and being able to be introduced into the liquid.

9. The system of claim 8, further comprising:

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bushings situated in at least one of the cap and the bottom of the protective container, wherein the electric lead conductors are led through the protective container through the bushings.

10. The system of claim 9, wherein the bushings are made of glass.

11. The system of claim 8, further comprising:

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connecting leads in at least one of the cap and the bottom of the protective container, wherein the electric lead conductors are connectable to the connecting leads.

12. The system of claim 8, wherein the protective container includes at least one opening for a liquid inlet/outlet.

13. The system of claim 12, wherein the at least one opening is situated in the cap of the protective container.

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14. The system of claim 8, wherein the protective container is hermetically sealable.

15. The system of claim 1, wherein the conductive adhesive is an isotropic, electrically conductive adhesive including at least one of an epoxy resin, a phenolic resin, and a polyimide.

16. The system of claim 1, wherein the conductive adhesive is an isotropic, electrically conductive adhesive including an epoxy-phenol.

17. The system of claim 1, wherein the metal particles in the conductive adhesive are at least one of nickel particles and gold particles.

19. The system according to claims 17, wherein the at least one of nickel particles and gold particles are provided in the conductive adhesive in a concentration of 75 to 95 wt%.

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